

WHAT IS CLAIMED IS:

- 1 1. A computer based method for managing information about a  
2 plurality of experiments conducted on a plurality of samples, wherein each experiment  
3 provides an indication of a degree of expression of particular genetic sequences in a  
4 sample, said method comprising:  
5 registering at least one of said plurality of samples with a centralized  
6 database;  
7 tracking a plurality of information about said plurality of samples;  
8 tracking a plurality of information about said plurality of experiments;  
9 producing a sample history about said plurality of samples from said  
10 plurality of information;  
11 filtering said plurality of information about said plurality of experiments  
12 and said plurality of information about said plurality of samples according to filter input  
13 by a user to form a plurality of expression sequence information;  
14 publishing said plurality of expression sequence information; and  
15 providing a web based user interface to said user to enable the user to  
16 access said information.
- 1 2. The method of claim 1 wherein said information about said  
2 plurality of experiments includes a status of each of said plurality of experiments.
- 1 3. The method of claim 1 wherein said information about said  
2 plurality of experiments includes a result for each of said plurality of experiments.
- 1 4. The method of claim 1 wherein said information about said  
2 plurality of experiments includes a probe array type of each of said plurality of  
3 experiments.
- 1 5. The method of claim 1 wherein said information about said  
2 plurality of experiments includes a probe array lot number of each of said plurality of  
3 experiments.
- 1 6. The method of claim 1 wherein said information about said  
2 plurality of sample includes a sample type of each of said plurality of experiments.

1 7. The method of claim 1 wherein said information about said  
2 plurality of sample includes a sample project of each of said plurality of experiments.

1 8. The method of claim 1 wherein said plurality of experiments  
2 includes at least two experiments for each sample in said plurality of samples.

1 9. The method of claim 1 wherein said plurality of experiments  
2 includes one experiment for at least two samples in said plurality of samples.

1 10. A system for tracking information obtained from a plurality of gene  
2 expression sequence experiments, said system comprising:

3 a server having a data storage, said server operatively disposed to  
4 registering at least one of said plurality of samples with a centralized  
5 database;

6 tracking a plurality of information about said plurality of samples;

7 tracking a plurality of information about said plurality of experiments;

8 producing a sample history about said plurality of samples from said  
9 plurality of information;

10 filtering said plurality of information about said plurality of experiments  
11 and said plurality of information about said plurality of samples according to filter input  
12 by a user to form a plurality of expression sequence information;

13 publishing said plurality of expression sequence information; and

14 providing a web based user interface to said user to enable the user to  
15 access said information.

1 11. The system of claim 10 wherein said data storage is a GATC  
2 compliant database.

1 12. The system of claim 10 wherein said data storage is a plurality of  
2 relational databases.

1 13. The system of claim 10 further comprising a client connected to  
2 said server, said client operatively disposed to submit queries to said data storage of said  
3 server, said client further operatively disposed to receive responses from said server  
4 containing information contained in said data storage.

1 14. The system of claim 13 wherein said client and said server are  
2 interconnected by an internetwork.

1 15. A method for viewing a result of a plurality of experiments  
2 conducted on a plurality of samples, said results stored in at least one of a plurality of  
3 databases, said method comprising the steps:  
4 specifying which database to query;  
5 submitting at least one of a plurality of queries to form a result;  
6 viewing said result;  
7 filtering said result according to at least one of a plurality of user specified  
8 factors of interest to form a filtered result; and  
9 putting said filtered result into a graphical form.

1 16. A computer program product for managing information about a  
2 plurality of experiments conducted on a plurality of samples, wherein each experiment  
3 provides an indication of a degree of expression of particular genetic sequences in a  
4 sample, said product comprising:  
5 code for registering at least one of said plurality of samples with a  
6 centralized database;  
7 code for tracking a plurality of information about said plurality of samples;  
8 code for tracking a plurality of information about said plurality of  
9 experiments;  
10 code for producing a sample history about said plurality of samples from  
11 said plurality of information;  
12 code for filtering said plurality of information about said plurality of  
13 experiments and said plurality of information about said plurality of samples according to  
14 filter input by a user to form a plurality of expression sequence information;  
15 code for publishing said plurality of expression sequence information;  
16 code for providing a web based user interface to said user to enable the  
17 user to access said plurality of expression sequence information; and  
18 a computer readable storage medium for holding the codes.

1 17. The computer program product of claim 16 wherein said  
2 information about said plurality of experiments includes a status of each of said plurality  
3 of experiments.

1 18. The computer program product of claim 16 wherein said  
2 information about said plurality of experiments includes a result for each of said plurality  
3 of experiments.

1 19. The computer program product of claim 16 wherein said  
2 information about said plurality of experiments includes a probe array type of each of said  
3 plurality of experiments.

1 20. The computer program product of claim 16 wherein said  
2 information about said plurality of experiments includes a probe array lot number of each  
3 of said plurality of experiments.

1 21. The computer program product of claim 16 wherein said  
2 information about said plurality of sample includes a sample type of each of said plurality  
3 of experiments.

1 22. The computer program product of claim 16 wherein said  
2 information about said plurality of sample includes a sample project of each of said  
3 plurality of experiments.

1 23. The computer program product of claim 16 wherein said plurality  
2 of experiments includes at least two experiments for each sample in said plurality of  
3 samples.

1 24. The computer program product of claim 16 wherein said plurality  
2 of experiments includes one experiment for at least two samples in said plurality of  
3 samples.

1 25. A computer based method for managing information about a  
2 plurality of experiments conducted on a plurality of samples, wherein each experiment  
3 provides an indication of a degree of expression of particular genetic sequences in a  
4 sample, said method comprising:

- 5 tracking information about said plurality of experiments conducted on said
- 6 plurality of samples to form a database of information;
- 7 analyzing the results of the tracking step;
- 8 querying the database.

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